

WEST Search History

DATE: Wednesday, April 02, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
L2	L1 and ((424/450)!.CCLS.)	60	L2
L1	liposome\$ adj5 precipita\$	408	L1

END OF SEARCH HISTORY

WEST



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L2: Entry 9 of 60

File: USPT

Aug 29, 2000

DOCUMENT-IDENTIFIER: US 6110491 A

TITLE: Compound-loaded liposomes and methods for their preparation

Brief Summary Text (2):

The present invention relates to liposomes loaded with compounds in precipitated form, and to methods of producing such liposomes.

Brief Summary Text (24):

It has also been proposed to passively load compounds into liposomes by incubating the compound with preformed liposomes at an elevated temperature at which the compound is relatively soluble, allowing the compound to equilibrate into the liposomes at this temperature, then lowering the temperature of the liposomes to precipitate compound within the liposomes. This method is limited by the relatively poor encapsulation efficiencies which are characteristic of passive loading methods. Also, the compound may be quickly lost from the liposomes at elevated temperature, e.g., body temperature.

Brief Summary Text (29):

The invention includes a liposome composition comprising a suspension of liposomes contained in an aqueous bulk-phase medium; the liposomes comprising a coprecipitate of an ionizable compound and a charged precipitating agent, where the concentrations of both the compound and the precipitating agent within the liposomes are severalfold higher than the compound and precipitating agent concentrations in the bulk-phase medium, respectively, and the concentration of compound within the liposomes is not reduced by the presence in the suspension of a proton or alkali metal-ion ionophore. A composition as above, wherein the bulk phase medium is substantially free of the precipitating agent is preferred.

Brief Summary Text (33):

In another aspect, the invention includes a liposome composition comprising a suspension of liposomes contained in an aqueous bulk-phase medium, and an ionizable compound contained within the liposomes in the form of a pH-induced precipitate. The concentration of the compound within the liposomes is severalfold higher than that in the bulk-phase medium, and the concentration of compound within the liposomes is not reduced by the presence in the suspension of a proton or alkali metal-ion ionophore.

Brief Summary Text (34):

Also forming part of the invention is a method of producing a suspension of liposomes having an ionizable compound stably encapsulated in the liposomes in precipitated form. The method comprises adding a compound to be encapsulated to a suspension of liposomes in bulk-phase aqueous medium, the liposomes having substantially no outside to inside pH or electrochemical ion gradient and containing charged precipitating agent of higher inside/lower outside concentration, and the precipitating agent being oppositely charged to the compound; and incubating under conditions that allow active uptake of the compounds by the precipitating agent. In this method, the absence is in reference to the ion having the same charge sign as the compound to be loaded.

Brief Summary Text (39):

suspension of liposomes having an ionizable compound stably encapsulated in the liposomes in precipitated form, where the compound is relatively water insoluble at a first pH, and relatively water soluble at a second pH. The method includes adding the compound to a dispersion of liposomes contained in a bulk-phase aqueous medium, where

the dispersion has an inside-to-outside liposome pH gradient corresponding to said first and second pH, respectively. The compound and dispersion are incubated under conditions which allow uptake of the compound by the liposomes to a compound concentration that is severalfold that of the compound concentration in the bulk-phase medium, as evidenced by the formation of a precipitate inside the liposomes.

Brief Summary Text (41):

In a final aspect, the invention includes a method of producing a suspension of liposomes having an ionizable compound stably encapsulated in the liposomes in precipitated form. The method includes adding the compound to a dispersion of liposomes contained in a bulk-phase aqueous medium, where the liposomes have (i) a higher inside/lower outside gradient of a multivalent, charged precipitating agent, and (ii) substantially no inside-to-outside pH gradient. The compound and dispersion are then incubated under conditions that allow uptake of the compound by the liposomes to a compound concentration that is severalfold that of the compound concentration in the bulk-phase medium, as evidenced by the formation of a precipitate inside the liposomes.

Detailed Description Text (2):

I. Liposome Composition with Precipitated Compound

Detailed Description Text (3):

This section describes a novel liposome composition containing liposomes suspended in a bulk-phase aqueous medium, and an ionizable compound contained within the liposomes in the form of a stable precipitate, at a concentration of compound that is several times that of the compound in the bulk-phase medium.

Detailed Description Text (19):

According to another aspect of the invention, the charged precipitating agent is present at a high-internal/low-external concentration; that is, there is a concentration gradient of agent across the liposome membranes in the composition. If the precipitating agent is present in significant amounts in the bulk phase, the agent can serve as a sink for liposome-entrapped precipitated compound, thus drawing off the compound over time. Preferably, the liposomes are prepared, as described in Section II below, so that the composition is substantially free of precipitating agent in the bulk phase (outside aqueous phase).

Detailed Description Text (33):

In another general aspect, the invention includes a method of producing a suspension of liposomes having an ionizable compound stably encapsulated in the liposomes in precipitated form, at a concentration of compound that is several times that of the compound in the bulk-phase medium.

Detailed Description Text (46):

The compound to be entrapped is then added to the liposome dispersion for active loading into the liposomes. The amount of compound added may be determined from the total amount of drug to be encapsulated, assuming 100% encapsulation efficiency, i.e., where all of the added compound is eventually loaded into liposomes in the form of precipitate.

Detailed Description Text (52):

In practicing the method, the compound is added to a dispersion of liposomes having an inside-to-outside liposome pH gradient corresponding to the first and second pH, respectively. Specifically, the internal liposome pH is one at which the compound precipitates at low compound concentration, and the bulk phase pH is one at which the compound is relatively soluble. Exemplary compound solubilities for a variety of compounds suitable in the invention are given in Section IB above.

Detailed Description Text (58):

In accordance with the invention, a suspension of liposomes having an ionizable compound stably encapsulated in the liposomes in precipitated form can also be prepared with multivalent, ionically charged organic compounds as precipitating agents, whether polymeric or non-polymeric in nature.

Detailed Description Text (63):

Liposomes having an inside/outside gradient of the precipitating agent are prepared as in IIA above. The liposome dispersion is then incubated with the compound to be encapsulated, under conditions that allow uptake of the compound into liposomes, also as described above. The final product may be further treated to remove free compound.

Current US Original Classification (1):

424/450

CLAIMS:

1. A method for producing liposome-encapsulated compounds, comprising:

incubating a compound with a suspension of liposomes in a medium, said liposomes spatially defined by a membrane surrounding an interior, and said compound capable of having a charge sign, and

said liposomes comprising within the interior a concentration of compound-precipitating ion, wherein said concentration of said compound-precipitating ion is greater in the interior of the liposomes compared to said medium, and is sufficient to effect precipitation of said compound within said liposome interior during incubation; and

said liposomes having, prior to precipitation, substantially no transmembrane gradient of a hydrogen ion; and

said liposomes having, prior to precipitation, substantially no transmembrane gradient of an ammonium ion; and

said liposomes having, prior to precipitation, substantially no transmembrane gradient of a membrane-permeating ion having the same charge sign as said compound.

13. A liposome composition formed by incubation of compound with a suspension of liposomes comprising:

liposomes in a medium, said liposomes spatially defined by a membrane surrounding an interior, and said compound capable of having a charge sign; and

wherein the compound is in the form of a precipitating ion-induced precipitate; and

said liposomes comprising a concentration of a compound-precipitating ion which is greater in the liposome interior compared to said medium; and

said liposomes having prior to formation of said precipitate, substantially no transmembrane gradient of a hydrogen ion; and

said liposomes having, prior to formation of said precipitate, substantially no transmembrane gradient of an ammonium ion; and

said liposomes having, prior to formation of said precipitate, substantially no transmembrane gradient of a membrane-permeating ion having the same charge sign as said compound.

16. A liposome composition of claim 13, wherein the compound-precipitating ion is a polymeric anion.

17. A liposome composition of claim 13, wherein the compound-precipitating ion is a multivalent non-polymeric anion.

19. A liposome composition of claim 13, wherein the compound-precipitating ion is selected from the group consisting of: polyacrylate; chondroitin sulfate A; polyvinylsulfate; polyphosphate; phosphate; pyrophosphate; sulfate; citrate; tartarate; nitrilotriacetate; ethylenediamine tetraacetate; and diethylenetriamine pentaacetate.

21. A liposome composition of claim 13, wherein the compound-precipitating ion is a polymeric cation.

22. A liposome composition of claim 13, wherein the compound-precipitating ion is a multivalent non-polymeric cation.

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L2: Entry 28 of 60

File: USPT

Jul 28, 1998

DOCUMENT-IDENTIFIER: US 5785987 A

TITLE: Method for loading lipid vesicles

Brief Summary Text (13): . . .

The liposomes of this invention may be prepared with therapeutic agents which precipitate at pH ranges usual in the preparation and loading of lipid vesicles by conventional means. Further advantages for these liposomal compositions include a long shelf life which is a result of the lipids not being exposed to harsh conditions which can hydrolyze them.

Current US Original Classification (1):424/450

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 30 of 60 returned.**☐ 1. Document ID: US 6497895 B2

L2: Entry 1 of 60

File: USPT

Dec 24, 2002

US-PAT-NO: 6497895

DOCUMENT-IDENTIFIER: US 6497895 B2

TITLE: Hyperbranched polymeric micelles for encapsulation and delivery of hydrophobic molecules

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uhrich; Kathryn E.	Hoboken	NJ		

US-CL-CURRENT: [424/422](#); [424/450](#), [424/451](#), [424/78.08](#), [514/937](#), [514/969](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 2. Document ID: US 6458382 B1

L2: Entry 2 of 60

File: USPT

Oct 1, 2002

US-PAT-NO: 6458382

DOCUMENT-IDENTIFIER: US 6458382 B1

TITLE: Nucleic acid transfer complexes

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Herweijer; Hans	Madison	WI		
Budker; Vladimir G.	Middleton	WI		

US-CL-CURRENT: [424/450](#); [435/455](#), [435/458](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: US 6429200 B1

L2: Entry 3 of 60

File: USPT

Aug 6, 2002

US-PAT-NO: 6429200

DOCUMENT-IDENTIFIER: US 6429200 B1

TITLE: Reverse micelles for delivery of nucleic acids

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Monahan; Sean D.	Madison	WI		
Wolff; Jon A.	Madison	WI		
Slattum; Paul M.	Madison	WI		
Hagstrom; James E.	Madison	WI		
Budker; Vladimir G.	Madison	WI		

US-CL-CURRENT: 514/44; 424/450, 435/455, 435/458, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Draw Desc	Image										

☐ 4. Document ID: US 6416745 B1

L2: Entry 4 of 60

File: USPT

Jul 9, 2002

US-PAT-NO: 6416745

DOCUMENT-IDENTIFIER: US 6416745 B1

TITLE: Dental composition for treating hypersensitive teeth

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Markowitz; Kenneth J.	Fanwood	NJ		
Fitz; Benjamin D.	Brooklyn	NY		

US-CL-CURRENT: 424/49; 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 5. Document ID: US 6387395 B1

L2: Entry 5 of 60

File: USPT

May 14, 2002

US-PAT-NO: 6387395

DOCUMENT-IDENTIFIER: US 6387395 B1

TITLE: N-[1, (1-1) -dialkyloxy] - and N- [1, (1-1) -dialkenyloxy]-
alk-1-yl-N,N,N-tetrasubstituted ammonium lipids and uses therefor

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Palo Alto	CA	94303	
Felgner; Philip L.	Palo Alto	CA	94303	
Gadek; Thomas R.	Palo Alto	CA	94303	
Jones; Gordon H.	Palo Alto	CA	94303	
Roman; Richard B.	Palo Alto	CA	94303	

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 6. Document ID: US 6367479 B1

L2: Entry 6 of 60

File: USPT

Apr 9, 2002

US-PAT-NO: 6367479

DOCUMENT-IDENTIFIER: US 6367479 B1

TITLE: METHOD OF FORCING THE REVERSE TRANSPORT OF CHOLESTEROL FROM A BODY PART TO THE LIVER WHILE AVOIDING HARMFUL DISRUPTIONS OF HEPATIC CHOLESTEROL HOMEOSTASIS, AND PHARMACEUTICAL COMPOSITIONS AND KIT RELATED THERETO

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA		

US-CL-CURRENT: 128/898; 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 7. Document ID: US 6328988 B1

L2: Entry 7 of 60

File: USPT

Dec 11, 2001

US-PAT-NO: 6328988

DOCUMENT-IDENTIFIER: US 6328988 B1

TITLE: Hyperbranched polymeric micelles for encapsulation and delivery of hydrophobic molecules

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uhrich; Kathryn E.	Hoboken	NJ		

US-CL-CURRENT: 424/422; 424/450, 424/451, 424/78.08, 514/937, 514/969

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 8. Document ID: US 6153217 A

L2: Entry 8 of 60

File: USPT

Nov 28, 2000

US-PAT-NO: 6153217

DOCUMENT-IDENTIFIER: US 6153217 A

TITLE: Nanocochleate formulations, process of preparation and method of delivery of pharmaceutical agents

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jin; Tuo	Newark	NJ		
Zarif; Leila	Newark	NJ		
Mannino; Raphael	Annandale	NJ		

US-CL-CURRENT: 424/450; 424/400, 424/427, 424/430, 424/434, 424/435, 424/436,
436/829, 514/966, 514/967

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 9. Document ID: US 6110491 A

L2: Entry 9 of 60

File: USPT

Aug 29, 2000

US-PAT-NO: 6110491

DOCUMENT-IDENTIFIER: US 6110491 A

TITLE: Compound-loaded liposomes and methods for their preparation

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kirpotin; Dmitri	San Francisco	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 10. Document ID: US 6080422 A

L2: Entry 10 of 60

File: USPT

Jun 27, 2000

US-PAT-NO: 6080422

DOCUMENT-IDENTIFIER: US 6080422 A

TITLE: Methods of angioplasty and cardiac catheterization

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA		

US-CL-CURRENT: 424/450; 514/77, 514/78, 514/824

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 11. Document ID: US 6079416 A

L2: Entry 11 of 60

File: USPT

Jun 27, 2000

US-PAT-NO: 6079416

DOCUMENT-IDENTIFIER: US 6079416 A

TITLE: Method of forcing the reverse transport of cholesterol from a body part to the liver while avoiding harmful disruptions of hepatic cholesterol homeostasis

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA	19096	

US-CL-CURRENT: 128/898; 424/450, 604/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 12. Document ID: US 6074666 A

L2: Entry 12 of 60

File: USPT

Jun 13, 2000

US-PAT-NO: 6074666

DOCUMENT-IDENTIFIER: US 6074666 A

TITLE: Liposome compositions of porphyrin photosensitizers

DATE-ISSUED: June 13, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Desai; Narendra Raghunathji	Danbury	CT		
Agha; Bushra J.	Durham	NC		
Kale; Kalidas Madhavrao	Harriman	NY		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC
Draw Desc	Image									

☐ 13. Document ID: US 6008202 A

L2: Entry 13 of 60

File: USPT

Dec 28, 1999

US-PAT-NO: 6008202

DOCUMENT-IDENTIFIER: US 6008202 A

TITLE: Stable lipid-comprising drug delivery complexes and methods for their production

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Leaf	Wexford	PA		
Gao; Xiang	Nashville	TN		
Sorgi; Frank L.	Sonoma	CA		
Paul; Ralph Wilfred	Seattle	WA		
Sloane; David L.	Bainbridge Island	WA		
Loomis; Aaron Garth	Seattle	WA		

US-CL-CURRENT: 514/44; 424/450, 514/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC
Draw Desc	Image									

☐ 14. Document ID: US 5989587 A

L2: Entry 14 of 60

File: USPT

Nov 23, 1999

US-PAT-NO: 5989587

DOCUMENT-IDENTIFIER: US 5989587 A

TITLE: Formation of stable liposomes from lipid extracts of archaeobacteria (archaeu)

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Ottawa			CA
Patel; Girishchandra B.	Nepean			CA
Choquet; Christian G.	Quebec			CA
Ekiel; Irena	Quebec			CA

US-CL-CURRENT: 424/450; 428/402.2, 554/213, 554/79, 554/80

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC
Draw Desc	Image									

☐ 15. Document ID: US 5972379 A

L2: Entry 15 of 60

File: USPT

Oct 26, 1999

US-PAT-NO: 5972379

DOCUMENT-IDENTIFIER: US 5972379 A

TITLE: Liposome composition and method for administering a quinolone

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guo; Luke S. S.	Lafayette	CA		
Gittelman; Josh	Redwood City	CA		
Zalipsky; Samuel	Redwood City	CA		
Martin; Francis J.	San Francisco	CA		

US-CL-CURRENT: 424/450; 264/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC
Draw Desc	Image									

☐ 16. Document ID: US 5948435 A

L2: Entry 16 of 60

File: USPT

Sep 7, 1999

US-PAT-NO: 5948435

DOCUMENT-IDENTIFIER: US 5948435 A

TITLE: Methods of regulating CETP genes, enzymes and other compound, and pharmaceutical composition therefor

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA		

US-CL-CURRENT: 424/450; 435/91.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC
Draw Desc	Image									

☐ 17. Document ID: US 5939096 A

L2: Entry 17 of 60

File: USPT

Aug 17, 1999

US-PAT-NO: 5939096

DOCUMENT-IDENTIFIER: US 5939096 A

TITLE: Liposome drug-loading method and composition

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clerc; Stephane	Castres			FR
Barenholz; Yechezkel	Jerusalem			IL

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 18. Document ID: US 5935599 A

L2: Entry 18 of 60

File: USPT

Aug 10, 1999

US-PAT-NO: 5935599

DOCUMENT-IDENTIFIER: US 5935599 A

TITLE: Polymer-associated liposomes for drug delivery and method of manufacturing the same

DATE-ISSUED: August 10, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dadey; Eric J.	Aurora	IL		

US-CL-CURRENT: 424/450; 264/4.1, 424/1.21, 424/417, 424/9.321, 424/9.51, 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 19. Document ID: US 5925362 A

L2: Entry 19 of 60

File: USPT

Jul 20, 1999

US-PAT-NO: 5925362

DOCUMENT-IDENTIFIER: US 5925362 A

TITLE: Method to elicit an antitumor response with human prostate-specific antigen

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spitler; Lynn E.	Tiburon	CA		
Maida, III; Anthony E.	Danville	CA		

US-CL-CURRENT: 424/277.1; 424/184.1, 424/450, 424/520, 424/559, 424/812, 424/93.2, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 20. Document ID: US 5897873 A

L2: Entry 20 of 60

File: USPT

Apr 27, 1999

US-PAT-NO: 5897873

DOCUMENT-IDENTIFIER: US 5897873 A

TITLE: Affinity associated vaccine

DATE-ISSUED: April 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Popescu; Mircea	Plainsboro	NJ		

US-CL-CURRENT: 424/450; 424/204.1, 424/206.1, 424/208.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 21. Document ID: US 5888821 A

L2: Entry 21 of 60

File: USPT

Mar 30, 1999

US-PAT-NO: 5888821

DOCUMENT-IDENTIFIER: US 5888821 A

TITLE: Cholesterol derivative for liposomal gene transfer

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reszka; Regina	Schwanebeck			DE

US-CL-CURRENT: 435/458; 424/1.45, 424/450, 435/52, 514/12, 514/44, 536/23.1, 564/463

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 22. Document ID: US 5858400 A

L2: Entry 22 of 60

File: USPT

Jan 12, 1999

US-PAT-NO: 5858400

DOCUMENT-IDENTIFIER: US 5858400 A

TITLE: Method of suppressing a rise in LDL concentrations after administration of an agent having small acceptors

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA		

US-CL-CURRENT: 424/450; 514/824, 604/27, 604/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 23. Document ID: US 5846458 A

L2: Entry 23 of 60

File: USPT

Dec 8, 1998

US-PAT-NO: 5846458

DOCUMENT-IDENTIFIER: US 5846458 A

TITLE: Inhibition adsorption of proteins on the liposome surface

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshioka; Hiroshi	Shizuoka-ken			JP
Goto; Hiroshi	Shizuoka-ken			JP

US-CL-CURRENT: 264/4.32; 264/4.3, 264/4.6, 424/450, 514/832

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 24. Document ID: US 5843475 A

L2: Entry 24 of 60

File: USPT

Dec 1, 1998

US-PAT-NO: 5843475

DOCUMENT-IDENTIFIER: US 5843475 A

TITLE: Delivery and activation through liposome incorporation of diaminocyclohexane platinum (II) complexes

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perez-Soler; Roman	Houston	TX		
Khokhar; Abdul R.	Houston	TX		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 25. Document ID: US 5843474 A

L2: Entry 25 of 60

File: USPT

Dec 1, 1998

US-PAT-NO: 5843474

DOCUMENT-IDENTIFIER: US 5843474 A

TITLE: Method of dialysis treatment, and dialysis apparatus related thereto

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 26. Document ID: US 5817334 A

L2: Entry 26 of 60

File: USPT

Oct 6, 1998

US-PAT-NO: 5817334

DOCUMENT-IDENTIFIER: US 5817334 A

TITLE: Method of making liposomes with improved stability during drying

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schmidt; Paul G.	San Marino	CA		
Fujii; Gary	Torrance	CA		

US-CL-CURRENT: 424/450; 264/4.3, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 27. Document ID: US 5795587 A

L2: Entry 27 of 60

File: USPT

Aug 18, 1998

US-PAT-NO: 5795587

DOCUMENT-IDENTIFIER: US 5795587 A

TITLE: Stable lipid-comprising drug delivery complexes and methods for their production

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gao; Xiang	Pittsburgh	PA		
Huang; Leaf	Wexford	PA		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw. Desc	Image									

☐ 28. Document ID: US 5785987 A

L2: Entry 28 of 60

File: USPT

Jul 28, 1998

US-PAT-NO: 5785987

DOCUMENT-IDENTIFIER: US 5785987 A

TITLE: Method for loading lipid vesicles

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hope; Michael	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Fenske; David B.	Surrey			CA
Wong; Kim F.	Vancouver			CA

US-CL-CURRENT: 424/450; 264/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw. Desc	Image									

☐ 29. Document ID: US 5766624 A

L2: Entry 29 of 60

File: USPT

Jun 16, 1998

US-PAT-NO: 5766624

DOCUMENT-IDENTIFIER: US 5766624 A

TITLE: Liposomal defensins

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janoff; Andrew S.	Yardley	PA		
Perkins; Walter	Monmouth Junction	NJ		
Ahmad; Imran	Plainsboro	NJ		

US-CL-CURRENT: 424/450; 424/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

K00C

☐ 30. Document ID: US 5736157 A

L2: Entry 30 of 60

File: USPT

Apr 7, 1998

US-PAT-NO: 5736157

DOCUMENT-IDENTIFIER: US 5736157 A

TITLE: Method of regulating cholesterol related genes, enzymes and other compounds,
and pharmaceutical compositions

DATE-ISSUED: April 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin Jon	Wynnewood	PA	19096	

US-CL-CURRENT: 424/450; 435/91.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

K00C

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Terms	Documents
L1 and ((424/450)!.CCLS.)	60

Display Format: [Change Format](#)[Previous Page](#)[Next Page](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 31 through 60 of 60 returned.**☐ 31. Document ID: US 5676971 A

L2: Entry 31 of 60

File: USPT

Oct 14, 1997

US-PAT-NO: 5676971

DOCUMENT-IDENTIFIER: US 5676971 A

TITLE: Agents for inhibiting adsorption of proteins on the liposome surface

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshioka; Hiroshi	Shizuoka-ken			JP
Goto; Hiroshi	Shizuoka-ken			JP

US-CL-CURRENT: [424/450](#); [264/4.3](#), [264/4.32](#), [424/533](#), [428/402.2](#), [514/6](#), [514/832](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC
Draw Desc	Image										

☐ 32. Document ID: US 5622712 A

L2: Entry 32 of 60

File: USPT

Apr 22, 1997

US-PAT-NO: 5622712

DOCUMENT-IDENTIFIER: US 5622712 A

TITLE: N-[.omega., (.omega.-1)-dialkyloxy]- and N-[.omega., (.omega.-1)-dialkenyloxy]-alk-1-yl-N, N, N-tetrasubstituted ammonium lipids and uses therefor

DATE-ISSUED: April 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: [424/450](#); [264/4.1](#), [264/4.33](#), [264/4.6](#), [424/423](#), [424/427](#), [424/428](#), [424/449](#), [435/829](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Draw Desc	Image										

☐ 33. Document ID: US 5593622 A

L2: Entry 33 of 60

File: USPT

Jan 14, 1997

US-PAT-NO: 5593622

DOCUMENT-IDENTIFIER: US 5593622 A

TITLE: Preparation of liposomes with peg-bound phospholipid on surface

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshioka; Hiroshi	Shizuoka-ken			JP
Goto; Hiroshi	Shizuoka-ken			JP

US-CL-CURRENT: 264/4.32; 264/4.3, 424/450, 428/402.2, 514/6, 514/832

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Draw Desc	Image										

☐ 34. Document ID: US 5569464 A

L2: Entry 34 of 60

File: USPT

Oct 29, 1996

US-PAT-NO: 5569464

DOCUMENT-IDENTIFIER: US 5569464 A

TITLE: Stable aqueous dispersions containing liposomes

DATE-ISSUED: October 29, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endo; Kenji	Fujisawa			JP
Suzuki; Hidekazu	Kanagawa-ken			JP
Oguma; Touru	Hadano			JP
Goto; Masayoshi	Tokyo			JP

US-CL-CURRENT: 424/450; 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 35. Document ID: US 5565213 A

L2: Entry 35 of 60

File: USPT

Oct 15, 1996

US-PAT-NO: 5565213

DOCUMENT-IDENTIFIER: US 5565213 A

TITLE: Stable liposome aqueous suspension

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamori; Katsu	Saitama			JP
Yoshida; Tsuguchika	Saitama			JP
Koyama; Ikuo	Saitama			JP
Nakajima; Toshiaki	Saitama			JP
Odawara; Mikiko	Saitama			JP

US-CL-CURRENT: 424/450; 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 36. Document ID: US 5552157 A

L2: Entry 36 of 60

File: USPT

Sep 3, 1996

US-PAT-NO: 5552157

DOCUMENT-IDENTIFIER: US 5552157 A

TITLE: Liposome for entrapping gene, liposomal preparation and process for the manufacture of the preparation

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yagi; Kunio	Aichi-ken			JP
Noda; Hitoshi	Aichi-ken			JP
Ohishi; Nobuko	Gifu			JP
Kurono; Masayasu	Mie-ken			JP

US-CL-CURRENT: 424/450; 435/174, 435/177

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 37. Document ID: US 5550289 A

L2: Entry 37 of 60

File: USPT

Aug 27, 1996

US-PAT-NO: 5550289

DOCUMENT-IDENTIFIER: US 5550289 A

TITLE: N-(1, (1-1)-dialkyloxy)-and N-(1, (1-1)-dialkenyloxy
alk-1-yl-N,N,N-tetrasubstituted ammonium lipids and uses therefor

DATE-ISSUED: August 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 564/293; 264/4.1, 264/4.33, 264/4.6, 424/423, 424/427, 424/428,
424/449, 424/450, 435/829, 564/283, 564/285, 564/292

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMHC
Draw Desc	Image									

☐ 38. Document ID: US 5545412 A

L2: Entry 38 of 60

File: USPT

Aug 13, 1996

US-PAT-NO: 5545412

DOCUMENT-IDENTIFIER: US 5545412 A

TITLE: N-[1, (1-1)-dialkyloxy]-and N-[1,
(1-1)-dialkenyloxy]-alk-1-yl-n,n,n-tetrasubstituted ammonium lipids and uses therefor

DATE-ISSUED: August 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.33, 264/4.6, 424/423, 424/427, 424/428,
424/449, 435/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMHC
Draw Desc	Image									

☐ 39. Document ID: US 5415869 A

L2: Entry 39 of 60

File: USPT

May 16, 1995

US-PAT-NO: 5415869

DOCUMENT-IDENTIFIER: US 5415869 A

TITLE: Taxol formulation

DATE-ISSUED: May 16, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straubinger; Robert M.	Amherst	NY		
Sharma; Amarnath	Buffalo	NY		
Mayhew; Eric	South Wales	NY		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 40. Document ID: US 5366737 A

L2: Entry 40 of 60

File: USPT

Nov 22, 1994

US-PAT-NO: 5366737

DOCUMENT-IDENTIFIER: US 5366737 A

TITLE: N-[.omega.,(.omega.-1)-dialkyloxy]- and
N-[.omega.,(.omega.-1)-dialkenyloxy]-alk-1-yl-N,N,N,-tetrasubstituted ammonium lipids
and uses therefor

DATE-ISSUED: November 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.33, 264/4.6, 424/423, 424/427, 424/428,
424/449, 435/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 41. Document ID: US 5290563 A

L2: Entry 41 of 60

File: USPT

Mar 1, 1994

US-PAT-NO: 5290563

DOCUMENT-IDENTIFIER: US 5290563 A

TITLE: Method for combining a mixture of heterogeneous substances with liposomes

DATE-ISSUED: March 1, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Millet-Genin; Isabelle	Plaisir			FR
Puisieux; Francis	Maisons Alfort			FR
Thao; Tran X.	Chatenay Malabry			FR
Roblot-Treupel; Liliane	Thiais			FR

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/275.1, 424/812, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 42. Document ID: US 5270052 A

L2: Entry 42 of 60

File: USPT

Dec 14, 1993

US-PAT-NO: 5270052

DOCUMENT-IDENTIFIER: US 5270052 A

TITLE: Methods and compositions for treatment of infection by intracellular parasites

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gelfand; Jeffrey A.	Cambridge	MA		
Callahan; Michael V.	Cambridge	MA		
Yamada; Yoshinori	Tokyo			JP

US-CL-CURRENT: 424/450; 436/829, 514/21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 43. Document ID: US 5260067 A

L2: Entry 43 of 60

File: USPT

Nov 9, 1993

US-PAT-NO: 5260067

DOCUMENT-IDENTIFIER: US 5260067 A

TITLE: Cytotropic heterogeneous molecular lipids (CHML) and process for preparing the same

DATE-ISSUED: November 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zheng; Xu	Arlington	VA	22203-1919	

US-CL-CURRENT: 424/450; 514/167, 514/168, 514/458, 514/558, 514/560, 514/573, 514/972

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 44. Document ID: US 5227170 A

L2: Entry 44 of 60

File: USPT

Jul 13, 1993

US-PAT-NO: 5227170

DOCUMENT-IDENTIFIER: US 5227170 A

TITLE: Encapsulation process

DATE-ISSUED: July 13, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sullivan; Sean M.	Pasadena	CA		

US-CL-CURRENT: 424/450; 424/417, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 45. Document ID: US 5208036 A

L2: Entry 45 of 60

File: USPT

May 4, 1993

US-PAT-NO: 5208036

DOCUMENT-IDENTIFIER: US 5208036 A

TITLE: N-(.omega., (.omega.-1)-dialkyloxy)- and N-(.omega., (.omega.-1)-dialkenyloxy)-alk-1-yl-N,N,N-tetrasubstituted ammonium lipids and uses therefor

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.33, 264/4.6, 424/422, 424/423, 424/427, 424/428, 424/449, 435/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 46. Document ID: US 5206027 A

L2: Entry 46 of 60

File: USPT

Apr 27, 1993

US-PAT-NO: 5206027

DOCUMENT-IDENTIFIER: US 5206027 A

TITLE: Amphipathic compound and liposome comprising the same

DATE-ISSUED: April 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kitaguchi; Hiroshi	Kanagawa			JP

US-CL-CURRENT: 424/450; 424/417, 530/323, 530/330, 530/331, 554/106, 554/110,
560/169, 560/170, 560/171

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KPMC
Draw Desc	Image									

☐ 47. Document ID: US 5089181 A

L2: Entry 47 of 60

File: USPT

Feb 18, 1992

US-PAT-NO: 5089181

DOCUMENT-IDENTIFIER: US 5089181 A

TITLE: Method of dehydrating vesicle preparations for long term storage

DATE-ISSUED: February 18, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hauser; Helmut O.	Zurich			CH

US-CL-CURRENT: 424/1.21; 264/4.1, 264/4.3, 424/450, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KPMC
Draw Desc	Image									

☐ 48. Document ID: US 5053217 A

L2: Entry 48 of 60

File: USPT

Oct 1, 1991

US-PAT-NO: 5053217

DOCUMENT-IDENTIFIER: US 5053217 A

TITLE: Composition and method

DATE-ISSUED: October 1, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lehigh; Steven	Croydon			GB2

US-CL-CURRENT: 424/45; 264/4.1, 264/4.4, 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 49. Document ID: US 5049391 A

L2: Entry 49 of 60

File: USPT

Sep 17, 1991

US-PAT-NO: 5049391

DOCUMENT-IDENTIFIER: US 5049391 A

TITLE: Liposome encapsulated hemoglobin

DATE-ISSUED: September 17, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Shizuoka			JP
Sakaguchi; Keisuke	Shizuoka			JP

US-CL-CURRENT: 424/450; 264/4.3, 264/4.6, 514/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 50. Document ID: US 5004611 A

L2: Entry 50 of 60

File: USPT

Apr 2, 1991

US-PAT-NO: 5004611

DOCUMENT-IDENTIFIER: US 5004611 A

TITLE: Pro-liposome compositions

DATE-ISSUED: April 2, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leigh; Steven	Croydon			GB2

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 51. Document ID: US 4946787 A

L2: Entry 51 of 60

File: USPT

Aug 7, 1990

US-PAT-NO: 4946787

DOCUMENT-IDENTIFIER: US 4946787 A

TITLE: N-(.omega.,(.omega.-1)-dialkyloxy)- and
N-(.omega.,(.omega.-1)-dialkenyloxy)-alk-1-yl-N,N,N-tetrasubstituted ammonium lipids
and uses therefor

DATE-ISSUED: August 7, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 264/4.1; 264/4.6, 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 52. Document ID: US 4897355 A

L2: Entry 52 of 60

File: USPT

Jan 30, 1990

US-PAT-NO: 4897355

DOCUMENT-IDENTIFIER: US 4897355 A

TITLE: N[.omega.,(.omega.-1)-dialkyloxy]- and
N-[.omega.,(.omega.-1)-dialkenyloxy]-alk-1-yl-N,N,N-tetrasubstituted ammonium lipids
and uses therefor

DATE-ISSUED: January 30, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eppstein; Deborah A.	Menlo Park	CA		
Felgner; Philip L.	Los Altos	CA		
Gadek; Thomas R.	Oakland	CA		
Jones; Gordon H.	Cupertino	CA		
Roman; Richard B.	Fairhope	AL		

US-CL-CURRENT: 424/450; 424/93.21, 435/440, 435/458

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 53. Document ID: US 4863739 A

L2: Entry 53 of 60

File: USPT

Sep 5, 1989

US-PAT-NO: 4863739

DOCUMENT-IDENTIFIER: US 4863739 A

TITLE: Liposome compositions of anthracycline derivatives

DATE-ISSUED: September 5, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perez-Soler; Roman	Houston	TX		
Priebe; Waldemar	Houston	TX		
Lopez-Berestein; Gabriel	Houston	TX		

US-CL-CURRENT: 424/450; 264/4.3, 264/4.6, 428/402.2, 436/829, 514/34, 514/908

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC
Draw Desc	Image									

☐ 54. Document ID: US 4844904 A

L2: Entry 54 of 60

File: USPT

Jul 4, 1989

US-PAT-NO: 4844904

DOCUMENT-IDENTIFIER: US 4844904 A

TITLE: Liposome composition

DATE-ISSUED: July 4, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamaguchi; Naoru	Ibaraki			JP
Iga; Katsumi	Suita			JP
Ogawa; Yasuaki	Ibaraki			JP

US-CL-CURRENT: 424/450; 264/4.3, 264/4.6, 424/85.2, 424/94.3, 428/402.2, 436/829, 514/885

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC
Draw Desc	Image									

☐ 55. Document ID: US 4744989 A

L2: Entry 55 of 60

File: USPT

May 17, 1988

US-PAT-NO: 4744989

DOCUMENT-IDENTIFIER: US 4744989 A

TITLE: Method of preparing liposomes and products produced thereby

DATE-ISSUED: May 17, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Payne; Nicholas I.	Merseyside			GB
Timmins; Peter	Merseyside			GB
Ambrose; Cheryl V.	London			GB

US-CL-CURRENT: [424/490](#); [424/450](#), [424/491](#), [424/493](#), [424/9.4](#), [514/3](#), [514/31](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KVMC

☐ 56. Document ID: US 4311712 A

L2: Entry 56 of 60

File: USPT

Jan 19, 1982

US-PAT-NO: 4311712

DOCUMENT-IDENTIFIER: US 4311712 A

TITLE: Process for preparing freeze-dried liposome compositions

DATE-ISSUED: January 19, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; John R.	Macclesfield			GB2
Fildes; Francis J. T.	Macclesfield			GB2
Oliver; Jean E.	Macclesfield			GB2

US-CL-CURRENT: [514/773](#); [264/4.1](#), [424/450](#), [514/181](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KVMC

☐ 57. Document ID: JP 05212269 A

L2: Entry 57 of 60

File: JPAB

Aug 24, 1993

PUB-NO: JP405212269A

DOCUMENT-IDENTIFIER: JP 05212269 A

TITLE: STABLE AQUEOUS LIPOSOME SUSPENSION

PUBN-DATE: August 24, 1993

INVENTOR-INFORMATION:

NAME	COUNTRY
NAKAJIMA, TOSHIAKI	
NAKAMORI, KATSU	
ODAWARA, MIKIKO	
KOYAMA, IKUO	
NEMOTO, MASAMI	

US-CL-CURRENT: [424/450](#)

INT-CL (IPC): B01J 13/02; A61K 9/127; A61K 47/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KVMC

☐ 58. Document ID: EP 637463 A1

L2: Entry 58 of 60

File: EPAB

Feb 8, 1995

PUB-NO: EP000637463A1

DOCUMENT-IDENTIFIER: EP 637463 A1

TITLE: STABLE AQUEOUS SUSPENSION OF LIPOSOME.

PUBN-DATE: February 8, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

NAKAMORI, KATSU

JP

YOSHIDA, TSUGUCHIKA

JP

KOYAMA, IKUO

JP

NAKAJIMA, TOSHIAKI

JP

ODAWARA, MIKIKO

JP

US-CL-CURRENT: 424/450

INT-CL (IPC): B01 J 13/02; A61 K 9/127

EUR-CL (EPC): A61K009/127; A61K009/127, B01J013/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KUMC

☐ 59. Document ID: WO 9411100 A1

L2: Entry 59 of 60

File: EPAB

May 26, 1994

PUB-NO: WO009411100A1

DOCUMENT-IDENTIFIER: WO 9411100 A1

TITLE: STABLE AQUEOUS LIPOSOME SUSPENSION

PUBN-DATE: May 26, 1994

INVENTOR-INFORMATION:

NAME

COUNTRY

NAKAJIMA, TOSHIAKI

JP

NAKAMORI, KATSU

JP

ODAWARA, MIKIKO

JP

KOYAMA, IKUO

JP

NEMOTO, MASAMI

JP

US-CL-CURRENT: 424/450

INT-CL (IPC): B01J 13/02; A61K 9/127

EUR-CL (EPC): A61K007/00; A61K009/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KUMC

☐ 60. Document ID: WO 9320934 A1

L2: Entry 60 of 60

File: EPAB

Oct 28, 1993

PUB-NO: WO009320934A1
DOCUMENT-IDENTIFIER: WO 9320934 A1
TITLE: STABLE AQUEOUS SUSPENSION OF LIPOSOME

PUBN-DATE: October 28, 1993

INVENTOR-INFORMATION:

NAME	COUNTRY
NAKAMORI, KATSU	JP
YOSHIDA, TSUGUCHIKA	JP
KOYAMA, IKUO	JP
NAKAJIMA, TOSHIAKI	JP
ODAWARA, MIKIKO	JP

US-CL-CURRENT: 424/450
INT-CL (IPC): B01J 13/02; A61K 9/127
EUR-CL (EPC): A61K009/127; A61K009/127, B01J013/00

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